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International Journal For Research in  
Applied Science and Engineering Technology



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# **INTERNATIONAL JOURNAL FOR RESEARCH**

IN APPLIED SCIENCE & ENGINEERING TECHNOLOGY

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**Volume: 8      Issue: V      Month of publication: May 2020**

**DOI: <http://doi.org/10.22214/ijraset.2020.5303>**

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# Study of Indoor Environmental Facilities among the Poultry Production Systems from District Aurangabad (M.S.) India

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**Abstract:** *The present communication deals with the observations and studies of indoor environmental facilities among poultry production systems from the district Aurangabad in Marathwada region of the state Maharashtra. For this study poultry production systems were selected randomly for collection of relevant information about the facilities of indoor environment. From the above study and observations it revealed that majority of the poultry production systems are maintained the facilities of indoor environment for the better life and health of birds and for increase the productivity. Indoor environmental facilities includes humidity, temperature, natural light sources etc. while some of the poultry production systems not maintained the facilities of indoor environment due to that it affect the overall poultry production and ultimately it affects the general economy of poultry production system. It also encouraged the distribution and development of diseases in the poultry birds. From the above study it is clear that majority of poultry production systems from the study area are aware about the facilities of indoor environment but some of the poultry production systems and its associated peoples are need to create the awareness about the facilities of indoor environment for improvement in the poultry production system in the study area.*

**Keywords:** *Indoor environment, facilities, Poultry production Systems, Aurangabad, India.*

## I. INTRODUCTION

In many developing countries the small scale poultry are the main producers of large scale poultry production systems. Poultry industry provides employment at village level and also to minimize the need for migration to overcrowded cities. It provides protein rich food for deadly growing poor population. Poultry plays an important socio-economic and nutritional role in the livelihood of rural households in many developing countries, (Adesiji, et. al.2013).The poultry production system can provide an alternate source to the farmers in the region reeling under repeated drought spell. Maharashtra is amongst the leading states for commercial layer and broiler farming. The government has taken decision to promote poultry farming in tribal and backward regions of north Maharashtra and Marathwada. (Shubhangi Khapre, 2015) Poultry birds are efficient converters of feed to egg and meat within a short period of time. Poultry provide source of income and employment to people compared to other domestic animals (Avila, 1985; Demeke, 2004). The aim of the present work was to observations and studies on indoor environmental facilities among the poultry production systems from the district Aurangabad in Marathwada region of the state Maharashtra. The main objective of the study includes to maintain the facilities of indoor environment among the poultry production system and to minimize the occurrence of poultry diseases for the quality of meat and eggs production and it also helpful to improve for the economic status of poultry production systems.

## II. MATERIALS AND METHODS

The study was conducted in the district Aurangabad in Marathwada region of the state Maharashtra. Most of the people in the study area are the land farmers as India is the agricultural country. The environmental condition in the study area is favorable for certain agricultural activities and rearing of domestic animals, such as poultry, dairy and fish production systems. The poultry production systems were randomly selected as sample for this observations and study. To collect the relevant information according to the present study, a semi-structured questionnaire was prepared. The information about indoor environmental facilities of poultry production systems is also collected from all the selected poultry production systems through personal interview and visit at the farm sites during the study period at different intervals. Information was obtained about the facilities of indoor environment, to evaluate the knowledge level about the indoor environment in the poultry production systems and among the associated peoples in the study area. The detailed studies were undertaken with a view to find out the indoor environmental facilities among the poultry production systems and awareness among its associated people.

### III. RESULTS AND DISCUSSION

During the study period it was observed and found that majority of the poultry production systems and associated people have ability to adequate knowledge about to maintain the indoor environment by using various facilities in the poultry production systems. Peoples associated with poultry production systems, those are having good educational background and more experience in this field they are most likely to have better ability to maintain the indoor environment by using various facilities than the less educational background and experience in this field according to the standard poultry production systems. Majority of the associated people of poultry production system they have more years of poultry production experience and this may influence their level of performance and observation about the indoor environment. This indicates that the majority of the poultry production systems and associated peoples in the study area they are aware about the indoor environment and facilities so far in the poultry production systems and have maintain the indoor environment by using various facilities according to the commercial poultry production. It will be helpful to maintain the quality of meat and eggs also helpful to minimize the disease occurrence among the birds. From the above information it was also observed that majority of the poultry production systems and its associated peoples reported that very less occurrence of poultry diseases only due to the proper facilities of indoor environment in the poultry production systems.

From the study it also reveals that some of the poultry production systems and its associated peoples agreed that improper indoor environment due to lack of facilities use by them and encouraged the distribution and development of diseases it become ultimately affect the quality of meat and reduced the eggs production as well as total poultry production. The environmental conditions affecting the performance and health productivity of chicken include temperature, relative humidity, light, sunshine prevailing at a given time, housing system and ventilation (Elijah and Adedapo, 2006). They also reported in their study that high rainfall and relative humidity provides a conducive environment for breeding of parasites that causes outbreak of diseases which invariably reduces egg production. They further reported that temperature reduces the feed intake of poultry birds because more energy is needed to conserve the heat caused by high temperature, hence, a decreased in the rate of feed intake. Changes in the environment alters global disease distribution, affects poultry feed intake, encourage outbreak of diseases which invariably affects poultry output (egg and meat) and also cost of production (Guis et al., 2011). Temperature fluctuation and increased sunshine intensity has negative consequence on poultry production resulting in high mortality of the chickens, low egg production and low feed in take with low production (ICAR, 2010). Environmental climatic changes influence the emergence of new poultry diseases and increased its distribution reported by (P. Ravichandran, et. al. 2015).

### IV. CONCLUSION

From the above observations and studies it can be concluded that majority of the poultry production systems and its associated peoples are aware about the indoor environmental facilities and hence it will be helpful for the total poultry production system. The study further revealed that improper facilities of indoor environment influence the emergence of new poultry diseases and increased its distribution. There is need to intensify awareness among the poultry production systems and its associated peoples about the proper indoor environmental facilities for better poultry production. So it is necessary to create the awareness among the poultry production systems and related peoples by the livestock development agencies. So that it also helpful to improve the poultry production in the study area.

### V. ACKNOWLEDGEMENT

Authors are thankful to the Principal, Yeshwantrao Chavan Arts, Commerce and Science College, Sillod, Dist. Aurangabad (M.S.) India and Head Department of Zoology, for providing laboratory and library facilities. Also thankful to the poultry production systems in the study area for their cooperation during the work.

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